#### **Commonwealth of Kentucky**

Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

### Title V AIR QUALITY PERMIT Issued under 401 KAR 52:020

Permittee Name: Louisville Gas and Electric Company

Mailing Address: P.O. Box 32010, Louisville, Kentucky, 40232

**Source Name:** Trimble County Generating Station

Mailing Address: P.O. Box 32010, Louisville, Kentucky, 40232

Source Location: RT # 1 HWYS 754 & 1838 Bedford, Trimble County,

**Kentucky** 

Permit Number: V-02-043 Log Number: 53892

**Review Type:** Operating, PSD/TV

Source ID #: 21-223-00002

**ORIS Code:** 6071

**Regional Office** North Central

**County:** Trimble

**Application** 

Complete Date: February 25, 2003 Issuance Date: June 20, 2003 Expiration Date: June 20, 2008

> John S. Lyons, Director Division for Air Quality

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Rev#	Permit type	Log#	Complete Date	Issuance Date	Summary of Action
	Initial Issuance	F720	12-13- 1996	NA	Was not issued proposed or final. Public notification was done.
1	Acid Rain Permit	F526	3-03- 1998	3-05- 1999	Permit for Unit 1-tangential coal fired boiler
2	PSD permit	53460	01-14- 2001	06-22- 2001	Permit issued for CT unit only without expiration
3	PSD/TV proposed permit	53460	12-19-02 ****	06-06-03	Consolidating all permits into one

<sup>\*\*\*</sup> this completeness date is only for the Phase II acid rain application for Combustion Turbines due for review.

### **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

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# SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

**Emissions Unit: 01 (01) - Unit 1 Indirect Heat Exchanger** 

#### **Description:**

Construction commenced: on or before September 18, 1978

Pulverized coal-fired, dry bottom, tangentially fired, equipped with Selective Catalytic Reduction (SCR), electrostatic precipitator and wet spray scrubber with limestone/lime injection

Up to forty (40) percent petroleum coke co-firing with coal

Number two fuel oil used for startups and flame stabilization

Maximum continuous rating: 5,333 MMBTU/hour

#### **Applicable Regulations:**

Regulation 401 KAR 59:015, New indirect heat exchangers, incorporating by reference 40 CFR 60 Subpart D, Standards of Performance for fossil-fuel-fired steam generators, for an emissions unit greater than 250 MMBTU/hour and commenced after August 17, 1971; and

Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality

#### 1. **Operating Limitations:**

None

#### 2. <u>Emission Limitations:</u>

Pursuant to Regulation 401 KAR 59:015, Section 4(1)(b), and Regulation 401 KAR 51:017, particulate emissions shall not exceed 0.1 lb/MMBTU based on a three-hour average.

The permittee may assure continuing compliance with the particulate emission standard by operating the affected facility and associated control equipment such that the opacity does not exceed the upper limit of the indicator range developed from continuous opacity monitoring (COM) data collected during stack tests. If five (5) percent of COM data (based on a three-hour rolling average) recorded in a calendar quarter show excursions from the indicator range, the permittee shall contact the Division within thirty (30) days after the end of the quarter to schedule a stack test to demonstrate compliance with the particulate standard while operating at the conditions which resulted in the excursions. The Division may waive this testing requirement upon a demonstration that the cause of the excursions has been corrected, or may require stack tests at any time pursuant to Regulation 401 KAR 50:045, Performance tests.

b) Pursuant to Regulation 401 KAR 59:015, Section 4(2), emissions shall not exceed twenty (20) percent opacity based on a six-minute average except a maximum of twenty-seven (27) percent opacity for not more than one (1) six (6) minute period in any sixty (60) consecutive minutes.

Opacity shall be demonstrated by using EPA reference method 9. Alternatively, the permittee may use COM in determining compliance with opacity.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE

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#### REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### 2. Emission Limitations continued:

c) Pursuant to Regulation 401 KAR 51:017, sulfur dioxide emissions shall not exceed 0.84 lb/MMBTU based on a three-hour rolling average.

d) Pursuant to Regulation 401 KAR 59:015, Section 6(1)(c), nitrogen oxides emissions expressed as nitrogen dioxide shall not exceed 0.7 lb/MMBTU based on a three-hour rolling average.

#### 3. Testing Requirements:

- The permittee shall submit a schedule within six months from the issuance date of this permit to conduct at least one performance test for particulate within one year following the issuance of this permit. The upper limit of the indicator range shall be developed from the COM data collected during the stack tests.
- b) If no additional stack tests are performed pursuant to Condition 2. a) above, the permittee shall conduct one performance test for particulate emissions within the third year of the term of this permit to demonstrate compliance with the allowable standard.
- c) The permittee shall determine the opacity of emissions from the stack by EPA Reference Method 9 annually, or more frequently if requested by the Division.

### 4. **Specific Monitoring Requirements:**

- a) Pursuant to Regulation 401 KAR 59:015, Section 7(1) and Section 7(4), Regulation 401 KAR 59:005, Section 4, continuous emission monitoring systems shall be installed, calibrated, maintained, and operated for measuring the opacity of emissions, sulfur dioxide, nitrogen oxides, and either oxygen or carbon dioxide emissions. The owner or operator shall ensure the continuous emission monitoring systems are in compliance with, and the owner or operator shall comply with the requirements of Regulation 401 KAR 59:005, Section 4.
- b) Pursuant to Regulation 401 KAR 59:015, Section 7(3), for performance evaluations of the sulfur dioxide and nitrogen oxides continuous emission monitoring system as required under Regulation 401 KAR 59:005, Section 4(3) and calibration checks as required under Regulation 401 KAR 59:005, Section 4(4), reference methods 6 or 7 shall be used as applicable as described by Regulation 401 KAR 50:015.
- c) Pursuant to Regulation 401 KAR 59:015, Section 7(3), sulfur dioxide or nitric oxide, as applicable, shall be used for preparing calibration gas mixtures under Performance Specification 2 of Appendix B to 40 CFR 60, filed by reference in Regulation 401 KAR 50:015.

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### 4. **Specific Monitoring Requirements continued:**

d) Pursuant to Regulation 401 KAR 59:015, Section 7(3), the span value for the continuous emission monitoring system measuring opacity of emissions shall be eighty (80), ninety (90), or one-hundred (100) percent and the span value for the continuous emission monitoring system measuring sulfur dioxide and nitrogen oxides emissions shall be in accordance with Regulation 401 KAR 59:015, Appendix C.

- e) All span values computed under (d) above for burning combinations of fuels shall be rounded to the nearest 500 ppm.
- f) Continuous emission monitoring data shall be converted into the units of applicable standards using the conversion procedure described in Regulation 401 KAR 59:015, Section 7(5).
- g) Pursuant to Regulation 401 KAR 59:015, Section 7(3), for an indirect heat exchanger that simultaneously burns fossil fuel and non-fossil fuel, the span value of all continuous monitoring systems shall be subject to the Division's approval.

#### 5. Specific Record Keeping Requirements:

- a) Pursuant to Regulation 401 KAR 59:005, Section 3 (4), the owner or operator of the indirect heat exchanger shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems and devices; and all other information required by Regulation 401 KAR 59:005 recorded in a permanent form suitable for inspection.
- b) Pursuant to Regulation 401 KAR 52:020, records, including those documenting the results of each compliance test, shall be maintained for five (5) years.
- c) Pursuant to Regulation 401 KAR 59:005, Section 3(2), the owner or operator of this unit shall maintain the records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the emissions unit, any malfunction of the air pollution control equipment; or any period during which a continuous monitoring system or monitoring device is inoperative.
- d) The permittee shall maintain records of the COM data on a three-hour rolling average basis, the number of excursions above the indicator range, time and date of excursions, opacity value of the excursions, and percentage of the COM data showing excursions from the indicator range in each calendar quarter.

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### **Specific Reporting Requirements:**

a) Pursuant to Regulation 401 KAR 59:005, Section 3 (3), minimum data requirements

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which follow shall be maintained and furnished in the format specified by the Division. Owners or operators of facilities required to install continuous monitoring systems shall submit for every calendar quarter a written report of excess emissions (as defined in applicable sections) to the Division. All quarterly reports shall be postmarked by the thirtieth (30th) day following the end of each calendar quarter and shall include the following information:

- 1) The magnitude of the excess emission computed in accordance with the Regulation 401 KAR 59:005, Section 4(8), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
- 2) All hourly averages shall be reported for sulfur dioxide and nitrogen oxides monitors. The hourly averages shall be made available in the format specified by the Division.
- 3) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the emissions unit. The nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.
- 4) The date and time identifying each period during which continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
- 5) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.
- b) Pursuant to Regulation 401 KAR 59:015, Section 7(7), for the purposes of reports required under Regulation 401 KAR 59:005, Section 3(3), periods of excess emissions that shall be reported are defined as follows:
  - 1) Excess emissions are defined as any six minute period during which the average opacity of emissions exceeds twenty percent opacity, except that one (1) six (6) minute average per hour of up to twenty-seven (27) percent opacity need not be reported.
  - 2) Excess emissions of sulfur dioxide are defined as any three (3) hour period during which the average emissions (arithmetic average of three contiguous one hour periods) exceed the applicable sulfur dioxide emissions standards.

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### **6.** Specific Reporting Requirements continued:

3) Excess emissions for emissions units using a continuous monitoring system for measuring nitrogen oxides are defined as any three (3) hour period during which the

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average emissions (arithmetic average of three contiguous one hour periods) exceed the applicable nitrogen oxides emissions standards.

c) The permittee shall report the number of excursions above the indicator range, date and time of excursions, opacity value of the excursions, and percentage of the COM data showing excursions from the indicator range in each calendar quarter.

#### 7. Specific Control Equipment Operating Conditions:

- a) The electrostatic precipitator and wet spray scrubber with limestone/lime injection shall be operated as necessary to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.
- b) Records regarding the maintenance of the control equipment shall be maintained.
- c) See Section E for further requirements.

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# SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Units: 02 (02, 03, 04) - Auxiliary boilers A, B, and C

#### **Description:**

Constructed commenced on or before: December 28, 1987

#2 Fuel Oil-fired Units

Maximum continuous rating: 11.76 MMBTU/hour, each

#### **Applicable Regulations:**

Regulation 401 KAR 59:015, New indirect heat exchangers, applicable to an emissions unit less than 250 MMBTU/hour and commenced on or after April 9, 1972.

#### 1. **Operating Limitations:**

Total annual #2 fuel oil usage rate for all auxiliary boilers A, B, and C (emission point 02) shall not exceed 682,500 gallons per year and sulfur content shall not exceed 0.8 percent, to demonstrate non-applicability of Prevention of Significant Deterioration of Air Quality.

#### 2. Emission Limitations:

- a) Pursuant to Regulation 401 KAR 59:015, Section 4(1)(b), particulate emissions shall not exceed 0.1 lb/MMBTU based on a three-hour average. Compliance with the allowable particulate standard may be demonstrated by calculating particulate emissions using fuel heating value, and emission factor information (Particulate formula: (0.002 lbs/gallon) / heating value in MMBTU/gallon.)
- b) Pursuant to Regulation 401 KAR 59:015, Section 4(2), emissions shall not exceed twenty (20) percent opacity based on a six-minute average except a maximum of forty (40) percent opacity for not more than six (6) consecutive minutes in any sixty (60) consecutive minutes during cleaning the firebox or blowing soot is allowed.
- c) Pursuant to Regulation 401 KAR 59:015, Section 5(1)(b), the sulfur dioxide emission rate shall not exceed 0.8 lb/MMBTU based on a three-hour average. Compliance with the allowable sulfur dioxide standard shall be demonstrated by calculating sulfur dioxide emissions using fuel heating value, fuel supplier certification with sulfur content, and emission factor information (AP-42 factors below). Sulfur dioxide formula: (0.142 lb/gallon x Percent Sulfur in fuel) / heating value in MMBTU/gallon.

#### 3. <u>Testing Requirements:</u>

Compliance with the opacity standard shall be demonstrated by reading the opacity once in every quarter by EPA Reference Method 9.

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#### REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### 4. **Specific Monitoring Requirements:**

- a) To demonstrate continuing compliance with the fuel oil sulfur content limitation, monitoring of operations shall consist of, on an as-received basis, fuel supplier certification of the sulfur content of the fuel oil to be combusted. The fuel supplier certification shall include the name of the oil supplier, sulfur content, and a statement that the oil complies with the specifications under the definition for distillate oil in Regulation 401 KAR 60:005.
- b) The fuel oil sulfur content and heating value shall be determined for the #2 fuel oil, as received, by fuel supplier certification.

#### 5. **Specific Record Keeping Requirements:**

- Pursuant to Regulation 401 KAR 59:005, Section 3 (4), the owner or operator of the indirect heat exchanger shall maintain a file of all measurements, including monthly #2 fuel oil usage. The owner or operator shall maintain a file of the fuel supplier certification; and all other information required by Regulation 401 KAR 59:005 recorded in a permanent form suitable for inspection. The file shall be retained for at least five (5) years following the date of such measurements, maintenance, reports, and records.
- b) Records of the #2 fuel oil used shall be maintained.

#### **6.** Specific Reporting Requirements:

See Section F.

#### 7. Specific Control Equipment Operating Conditions:

NA

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Emissions Unit: 05 (05, 06, -) - Fossil Fuel Handling Operations and Plant Roadways

**Description:** 

Construction commenced on or before: 1990

Equipment includes: Maximum Operating Rate (Tons/hour)

Continuous barge unloader, one barge unloader bin, 5500

and fossil fuel stacker reclaimer

One active pile, one inactive pile, stackout

3000

conveyor S, one reclaim hopper

Plant Roadways NA

#### **Applicable Regulations:**

Regulation 401 KAR 63:010, Fugitive emissions, and

Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality.

#### **Applicable Requirements**

- a) Pursuant to Regulation 401 KAR 63:010, Section 3, reasonable precautions shall be taken to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the following:
  - 1. application and maintenance of asphalt, application of water, or suitable chemicals on roads, material stockpiles, and other surfaces which can create airborne dusts;
  - 2. operation of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling;
  - 3. the maintenance of paved roadways in a clean condition;
  - 4. the prompt removal of earth or other material from a paved street which earth or other material has been transported thereto by trucking or other earth moving equipment or erosion by water.
- a) Pursuant to Regulation 401 KAR 63:010, Section 3, discharge of visible fugitive dust emissions beyond the property line is prohibited.
- b) No one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway, pursuant to Regulation 401 KAR 63:010, Section 4.

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### 1. Operating Limitations:

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None

#### 2. Emission Limitations:

None

#### 3. <u>Testing Requirements:</u>

None

#### 4. **Specific Monitoring Requirements:**

See Section F.

### 5. **Specific Record Keeping Requirements:**

- Records of the fossil fuels received and processed shall be maintained for emissions inventory purposes.
- b) Annual records estimating the tonnage hauled for plant roadways shall be maintained for emissions inventory purposes.

#### **Specific Reporting Requirements:**

See Section F.

#### 7. <u>Specific Control Equipment Operating Conditions:</u>

- a) The surfactants, enclosures, and a rotoclone for the fossil fuel receiving operations and the dust water suppressant system for the stockpile operations shall be used as necessary to maintain compliance with applicable requirements, in accordance with manufacturer's specifications and/or standard operating practices.
- b) Plant roadways shall be controlled with water as necessary to comply with Regulation 401 KAR 63:010.
- c) Records regarding the maintenance and use of the surfactants, enclosures, and a rotoclone for the fossil fuel receiving operations and the dust water suppressant system for the stockpile operations shall be maintained.
- d) See Section E for further requirements.

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Emissions Unit: 07 (07, 08, 09) - Fossil Fuel Handling Operations

#### **Description:**

Construction commenced on or before: 1990

Equipment includes: Maximum Operating Rate (Tons/hour)

Two crushers, fossil fuel crusher bin, and 3600, each crusher

conveyors E, R1, F1, and F2

Conveyor system, conveyor belts A, B, C, D, G1, G2, 1, 5500

and 2, and fuel blender

Six fossil fuel silos for Unit 1 Static capacity: 800 Tons per silo

#### **Applicable Regulations:**

Regulation 401 KAR 60:005, incorporation by reference 40 CFR 60 Subpart Y, Standards of Performance for Coal Preparation Plants for units commenced after October 24, 1974 Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality

#### 1. Operating Limitations:

None

#### 2. Emission Limitations:

a) Pursuant to Regulation 401 KAR 60:005 incorporating by reference 40 CFR 60.252, the owner or operator subject to the provisions of this regulation shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater.

#### 3. Testing Requirements:

a) Pursuant to Regulation 401 KAR 60:005 incorporating by reference, 40 CFR 60.254, EPA Reference Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity at least annually, or more frequently if requested by the Division.

#### 4. Specific Monitoring Requirements:

The permittee shall perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If visible emissions from any stack are seen, the permittee shall determine the opacity of emissions by Reference Method 9 and instigate an inspection of the control equipment making any necessary repairs.

#### 5. Specific Record Keeping Requirements:

Records of the fossil fuels processed shall be maintained for emissions inventory purposes.

#### 6. Specific Reporting Requirements:

See Section F.

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

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#### 7. Specific Control Equipment Operating Conditions:

The enclosures, surfactants, and rotoclone(s) for crushing and associated conveying operations, the partial enclosures for conveyor system with belts A, B, C, D, G1, G2, 1, 2, and fuel blender, and baghouse for the six fossil fuel silos shall be used/operated as necessary to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.

- b) Records regarding the maintenance and use/operation of the control equipment listed in 7(a) shall be maintained.
- c) See Section E for further requirements.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 10 (10 and 11) - Lime/Limestone Handling and Processing

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#### **Description:**

Equipment includes: Receiving Operations: clamshell unloader, clamshell barge unloader bin;

Stockpile/Stackout Operations: active pile, inactive pile

Construction commenced on or before: 1990

Maximum Operating Rate (Receiving): 1650 Tons/hour Maximum Operating Rate (Stockpile/Stackout): 1500 Tons/hr

#### **Applicable Regulations:**

Regulation 401 KAR 63:010, Fugitive emissions

Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality

#### **Applicable Requirements:**

- a) Pursuant to Regulation 401 KAR 63:010, Section 3, reasonable precautions shall be taken to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the following:
  - 1. application and maintenance of asphalt, application of water, or suitable chemicals on roads, material stockpiles, and other surfaces which can create airborne dusts;
  - 2. operation of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling.
- b) Pursuant to Regulation 401 KAR 63:010, Section 3, discharge of visible fugitive dust emissions beyond the property line is prohibited.

#### 1. **Operating Limitations:**

None

#### 2. <u>Emission Limitations:</u>

None

#### 3. Testing Requirements:

None

#### 4. Specific Monitoring Requirements:

See Section F.

#### 5. Specific Record Keeping Requirements:

Records of the lime and/or limestone received and processed shall be maintained for emissions inventory purposes.

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### **Specific Reporting Requirements:**

See Section F.

#### 7. Specific Control Equipment Operating Conditions:

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a) The wet spray low water surfactant and enclosures shall be used as necessary to maintain compliance with applicable requirements, in accordance with manufacturer's specifications and/or standard operating practices.

- b) Records regarding the maintenance and use of the wet spray low water surfactant and enclosures shall be maintained.
- c) See Section E for further requirements.

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Units: 12 (12, 13) - Lime/Limestone Handling and Processing

### **Description:**

Equipment Includes: underground crushing operation (one crusher); and milling operations (two ball mills)

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Construction commenced on or before: 1990

Operating Rate: 260 Tons/hour, each

#### **Applicable Regulations:**

Regulation 401 KAR 60.670, New nonmetallic mineral processing plants, incorporating by reference 40 CFR 60, Subpart OOO, applies to each of the emissions units listed above, commenced after August 31, 1983

Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality

#### 1. Operating Limitations:

None

#### 2. Emission Standards:

Pursuant to Regulation 401 KAR 60.670, incorporating by reference 40 CFR 60.672(e), no owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other emissions unit any visible fugitive emissions.

Note that the crusher building is located underground with no direct vent to the atmosphere; therefore as long as this is the case it is assumed to be in compliance.

#### 3. Testing Requirements:

In determining compliance with 401 KAR 60.670, incorporating by reference 40 CFR 60.672(e) for fugitive emissions from buildings, the owner(s) or operator(s) shall determine fugitive emissions while all emissions units are operating in accordance with EPA Reference Method 22, annually.

#### 4. Specific Monitoring Requirements:

The permittee shall inspect the control equipment weekly and make repairs as necessary to assure compliance.

#### 5. Specific Record Keeping Requirements:

Records of the lime and/or limestone processed shall be maintained for emissions inventory purposes.

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### **6.** Specific Reporting Requirements:

a) Pursuant to Regulation 401 KAR 60.670, incorporating by reference 40 CFR 60.676, the owner(s) or operator(s) of any emissions unit shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards of 40 CFR 60.672 and Regulation 401 KAR 59:310, including reports of observations using Method 22 to demonstrate compliance.

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b) See Section F.

### 7. Specific Control Equipment Operating Conditions:

- a) The enclosure shall be used as necessary to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.
- b) Records regarding the maintenance of the enclosure shall be maintained.
- c) See Section E for further requirements.

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 14 (14) - Lime/Limestone Handling and Processing

#### **Description:**

Equipment Includes: conveyors and transfer points (conveyor system, belts A, B, C, transfer bin, and reclaim hopper)

Construction commenced on or before: 1990

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Maximum Operating Rate: 1500 Tons/hour, each

#### **Applicable Regulations:**

Regulation 401 KAR 60:670, incorporating by reference 40 CFR 60 Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants, as modified by Section 3 of 401 KAR 60:670, applies to each of the emissions units listed above, commenced after August 31, 1983 Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality

#### 1. **Operating Limitations:**

None

### 2. <u>Emission Standards:</u>

- a) Pursuant to Regulation 401 KAR 60.670, incorporating by reference 40 CFR 60.672 (b), the owner(s) or operator(s) shall not cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other emissions unit any fugitive emissions which exhibit greater than ten (10) percent opacity.
- b) Pursuant to Regulation 401 KAR 60.670, incorporating by reference 40 CFR 60.672(e), no owner or operator shall cause to be discharged into the atmosphere from any building/enclosure enclosing any transfer point on a conveyor belt or any other emissions unit any visible fugitive emissions.

#### 3. Testing Requirements:

- a) EPA Reference Method 9 and the procedures in 40 CFR 60.11 and 40 CFR 60.675 shall be used for determining opacity, annually.
- b) In determining compliance with Regulation 401 KAR 401 KAR 60.670, incorporating by reference 40 CFR 60.672(e) for fugitive emissions from buildings/enclosures, the owner(s) or operator(s) shall determine fugitive emissions while all emissions units are operating in accordance with EPA Reference Method 22, annually.

#### 4. Specific Monitoring Requirements:

The permittee shall inspect the control equipment weekly and make repairs as necessary to assure compliance.

#### 5. **Specific Record Keeping Requirements:**

Records of the lime and/or limestone processed shall be maintained for emissions inventory purposes.

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

#### **6.** Specific Reporting Requirements:

- a) Pursuant to Regulation 401 KAR 60.670, incorporating by reference 40 CFR 60.676, the owner(s) or operator(s) of any emissions unit shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards of 40 CFR 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance, and reports of observations using Method 22 to demonstrate compliance.
- b) See Section F.

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### 7. Specific Control Equipment Operating Conditions:

a) The partial enclosures shall be used as necessary to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.

- b) Records regarding the maintenance of the partial enclosures shall be maintained.
- c) See Section E for further requirements.

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 18 (18) - Emergency diesel generator

#### **Description:**

Maximum Output: 150 kW

Rated capacity: 16.1 gallons/hour diesel fuel

Constructed on or before date: 1995

#### **Applicable Regulations:**

None

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#### 1. **Operating Limitations:**

None

#### 2. <u>Emission Limitations:</u>

None

#### 3. <u>Testing Requirements:</u>

None

## 4. **Specific Monitoring Requirements:**

See Section F.

#### 5. Specific Record Keeping Requirements:

Records of the fuel usage rate shall be maintained for emissions inventory purposes.

#### **Specific Reporting Requirements:**

See Section F.

### 7. Specific Control Equipment Operating Conditions:

NA

# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 20 (17) - Cooling Tower (with five chemical injection pumps and two circulating water pumps)

#### **Description:**

Constructed on or before date: September, 1990 Water circulation rate: 173,250 gallons per minute

### **Applicable Regulations:**

Regulation 401 KAR 63:010, Fugitive emissions

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#### **Applicable Requirements:**

Pursuant to Regulation 401 KAR 63:010, Section 3, reasonable precautions shall be taken to prevent particulate matter from becoming airborne.

#### **Operating Limitations:** 1.

None

#### **Emission Limitations:** 2.

None

#### **3. Testing Requirements:**

None

#### 4. **Specific Monitoring Requirements:**

See Section F.

### **5.**

<u>Specific Record Keeping Requirements:</u>
Records of the water circulation rate shall be maintained for emissions inventory purposes.

#### **Specific Reporting Requirements: 6.**

See Section F.

#### **Specific Control Equipment Operating Conditions:** 7.

See Section E.

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# SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Units: 25 – 30 (Emission Points 25 - 30) - 6 Combustion Turbines (TC5 - TC10)

#### **Description:**

1763 MMBTU/hr maximum rated heat input capacity (@ -10 degrees F), each, 160 MW nominal rated capacity output each. General Electric 7FA natural gas-fired simple cycle combustion turbines equipped with dry low NO<sub>x</sub> burners.

Emission Units 25 & 26 (TC 5 & TC6) are proposed to be installed in April of 2002 Emission Units 27 & 28 (TC 7 & TC8) are proposed to be installed in February of 2004 Emission Units 29 & 30 (TC 9 & TC10) are proposed to be installed in April of 2004

#### The following requirements are applicable to each combustion turbine

#### **Applicable Regulations:**

Regulation 401 KAR 60:005, incorporating by reference 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, for emissions unit with a heat input at peak load equal to or greater than 10 MMBTU/hour for which construction commenced after October 3, 1977, and 40 CFR 60, Subpart A, General Provisions.

Regulation 401 KAR 51:017, Prevention of significant deterioration of air quality Regulation 401 KAR 63:020, Potentially hazardous matter or toxic substances

#### 1. **Operating Limitations:**

- a) The Permittee shall not operate any combustion turbine below load levels at which performance testing has proven compliance with emission limitations, except during periods of startup and shutdown. Startup and shutdown periods shall be limited to no more than two hours for each startup/shutdown event.
- b) The Permittee shall use only natural gas in the turbines.

#### 2. Emission Limitations:

- a) Pursuant to Regulations 401 KAR 51:017, nitrogen oxides emission levels in the exhaust gas shall not exceed a hourly average of 12 ppm by volume at 15 percent oxygen on a dry basis, and an annual (12 month rolling) average of 9 ppm by volume at 15 percent oxygen on a dry basis, except during periods of startup, shutdown, or malfunction. Continuous compliance with this limit shall be demonstrated by a continuous emission monitor (CEM). Compliance with this limit constitutes compliance with the nitrogen oxide limit contained in 40 CFR 60 Subpart GG.
- b) Pursuant to regulation 401 KAR 51:017, the fuel sulfur content due to the firing of natural gas shall not exceed 2.0 grains/100 SCF. Compliance with this limit shall be demonstrated by fuel sampling or vendor guarantees.

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### REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c) Pursuant to Regulation 401 KAR 51:017, except during periods of startup, shutdown, or malfunction, the carbon monoxide emission level in the exhaust gas shall not exceed 9 ppm by volume at 15 % oxygen, on a dry basis, during any 3-hour average period. Continuous compliance with this limit shall be demonstrated by a continuous emission monitor (CEM).

- d) Pursuant to Regulation 401 KAR 51:017, particulate emissions shall not exceed 19 pounds per hour.
- e) The permittee shall not allow total formaldehyde emissions in the exhaust gas to exceed 10 tons during any consecutive 12- month period.
- f) See Section D.

#### 3. <u>Testing Requirements</u>:

- Pursuant to Regulation 40 CFR 60.335(b), in conducting performance tests required by 40 CFR 60.8, the owner or operator shall use as test methods and procedures the test methods in Appendix A of Part 60 or other methods or procedures as specified in 40 CFR 60.335, except as provided for in 40 CFR 60.8(b).
- b) Pursuant to Regulation 401 KAR 50:045, the owner or operator shall conduct an initial performance test on at least one of the turbines for sulfur dioxide, nitrogen oxides, carbon monoxide, particulate matter and formaldehyde, with use of a reference test method approved by the division.
- c) See General Conditions G(d)(5) and G(d)(6).

#### 4. **Specific Monitoring Requirements:**

- Pursuant to Regulation 401 KAR 52:020, Section 10, and 40 CFR 75, the permittee shall install, calibrate, maintain, and operate the nitrogen oxides Continuous Emissions Monitor (CEM). The nitrogen oxides CEM shall be used as the indicator of continuous compliance with the nitrogen oxides emission standard. Excluding the startup and shut down periods, if any (1) one-hour average exceeds the nitrogen oxides emission limitation, the permittee shall, as appropriate, initiate an investigation of the cause of the exceedance and complete necessary control device/process/CEM repairs or take corrective action as soon as practicable.
- b) Pursuant to 401 KAR 52:020, Section 10, the permittee shall monitor the quantity of natural gas, in millions of cubic feet, fired in each combustion turbine on a daily basis.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

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c) Pursuant to Regulation 40 CFR 60.334(b), the owner or operator of any stationary turbine shall monitor sulfur content of the fuel being fired in the turbine. The frequency of determination of these values shall be as specified in the following approved Custom fuel monitoring schedule. The permittee will sample the natural gas for sulfur content every six months or use vendor guarantees that the gas contains 2.0 grains/100 SCF of sulfur or less as proof of natural gas quality.

- d) Pursuant to Regulation 401 KAR 52:020, Section 10, to meet the periodic monitoring requirement for carbon monoxide the permittee shall use a continuous emission monitor (CEM). Excluding the startup and shut down periods, if any (3) three-hour average carbon monoxide value exceeds the standard, the permittee shall, as appropriate, initiate an investigation of the cause of the exceedance and complete necessary process or CEM repairs or take corrective action as soon as practicable.
- e) The permittee shall install, calibrate, operate, test, and monitor all continuous monitoring systems and monitoring devices in accordance with 40 CFR 60.13 or 40 CFR 75.
- f) The Permittee shall monitor the hours of operation of each combustion turbine on a daily basis.
- g) The Permittee shall monitor the power output, in MW, of each combustion turbine on a daily basis.

#### 5. Specific Record Keeping Requirements:

- a) Pursuant to Regulation 40 CFR 60.7 (f), the owner or operator of the gas turbines shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems and devices; and all other information required by Regulation 40 CFR 60, Subpart A recorded in a permanent form suitable for inspection.
- b) Records, including those documenting the results of each compliance test and all other records and reports required by this permit, shall be maintained for five (5) years pursuant to Regulation 401 KAR 52:020.

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# SECTION B -EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- c) The permittee shall maintain a log of all sulfur content measurements as required in the approved custom fuel sulfur-monitoring plan (Condition 4(c) above).
- d) The permittee shall maintain a daily log of the natural gas, in millions of cubic feet, fired in each combustion turbine, for any consecutive twelve (12) month period.
- e) The permittee shall maintain a daily log of all hours of operation for each combustion turbine, for any consecutive twelve (12) month period.
- f) The permittee shall maintain a daily log of all power output, in MW, for each combustion turbine, for any consecutive twelve (12) month period.

#### **Specific Reporting Requirements:**

- a) Pursuant to Regulation 40 CFR 60.7 (c), minimum data requirements which follow shall be maintained and furnished in the format specified by the Division. Owners or operators of facilities required to install continuous monitoring systems shall submit for every calendar quarter a written report of excess emissions (as defined in applicable sections) to the Division. All quarterly reports shall be postmarked by the thirtieth (30th) day following the end of each calendar quarter and shall include the following information:
  - 1) The magnitude of the excess emissions computed in accordance with the Regulation 40 CFR 60.13 (h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
  - 2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the emissions unit. The nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.
  - 3) The date and time identifying each period during which continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
  - 4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

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# SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- b) Pursuant to 401 KAR 52:020 Section 10, monitoring requirement with CEM for nitrogen oxides, excess emissions are defined as any (1) one-hour period during which the average emissions (arithmetic average) exceed the applicable nitrogen oxides emission standard. These periods of excess emissions shall be reported quarterly. The nitrogen oxide CEM reports will be used in lieu of the water to fuel ratio requirements of 40 CFR 60.334(c).
- c) Pursuant to Regulation 40 CFR 60.334(c), excess emissions of sulfur dioxide are defined as any daily period (or as otherwise required in an approved custom fuel sulfur monitoring plan) during which the sulfur content of the fuel being fired in the gas turbine(s) exceeds the limitations set forth in Subsection 2, Emission Limitations. These periods of excess emissions shall be reported quarterly.
- d) Pursuant to 401 KAR 52:020, Section 10, monitoring requirement with CEM for carbon monoxide, excess emissions are defined as any (3) three-hour period during which the average emissions (arithmetic average) exceed the applicable carbon monoxide emission standard. These periods of excess emissions shall be reported quarterly.

#### 7. Specific Control Equipment Operating Conditions:

- a) The Dry Low-NO<sub>x</sub> Burners shall be operated to maintain compliance with permitted emission limitations, in accordance with manufacturer's specifications and/or standard operating practices.
- b) See Section E for further requirements.

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The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

#### **Description**

### Generally Applicable Regulation

	Two station #2 fuel oil tanks, each 100,000 gallons, and auxiliary boiler day tank storing #2 fuel oil with a size of 16,000 gallons, to which Regulation 401 KAR 60:005 which references 40 CFR 60 Subpart Kb which applies, specifically 40 CFR 60.116b(a) and (b), general recordkeeping requirements.	40 CFR Subpart Kb 401 KAR 60:005
2.	Metal degreaser using a maximum throughput of 832 gallons/year solvent.	NA
3.	3,000 gallon unleaded gasoline storage tank.	NA
4.	3,000 gallon diesel storage tank.	NA
5.	1,100 gallon used oil storage tank.	NA
6.	1,100 gallon #1 fuel oil tank.	NA
7.	Flyash collection system to which Regulation 401 KAR 59:010 apply.	401 KAR 59:010
8.	Infrequent evaporation of boiler cleaning solutions.	NA
	Infrequent burning of deminimus quantities of used oil for energy recovery.	NA
10.	Paved and Unpaved Roads.	401 KAR 63:010
11.	Reheater (for CTs Units 9 & 10) Max. Heat Input 10.9 mmBtu/hr.	401 KAR 59:010
12.	Reheater (for CTs Units 11 &12) Max. Heat Input 10.9 mmBtu/hr.	401 KAR 59:010
13.	Reheater (for CTs Units 13 & 14) Max. Heat Input 10.9 mmBtu/hr.	401 KAR 59:010
14.	Gypsum Storage Piles	401 KAR 63:010
15.	Limestone Storage Piles (Active Indoor Limestone Pile and Inactive Outdoor Pile)	401 KAR 63:010
16.	Bottom Ash and Debris Collection Basin	401 KAR 63:010
17.	Bottom Ash Reclaim Operation	401 KAR 63:010

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# SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

- 1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months
- 2. Compliance with visible emission limitations for the indirect heat exchanger (emissions unit 1) shall be determined by using EPA reference method 9. Alternatively, the permittee may use COM in determining compliance with opacity.
- 3. Conditions in permit V-97-024 (draft) and PSD permit V-01-012 are being merged into one source-wide permit. Limitations from both permits are being combined into this permit.
- 4. Nitrogen oxides, sulfur dioxide, particulate matter, formaldehyde, and carbon monoxide emissions, as measured by methods referenced in Regulation 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
- 5. For phased construction projects for Emission Units 25-30, the determination of best available control technology shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than eighteen (18) months prior to commencement of construction of each independent phase of the project. The owner or operator of the applicable stationary source may then be required to demonstrate the adequacy of a previous determination of best available control technology for the source.

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### **SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS**

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

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# SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

- 1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
  - a. Date, place as defined in this permit, and time of sampling or measurements.
  - b. Analyses performance dates;
  - c. Company or entity that performed analyses;
  - d. Analytical techniques or methods used;
  - e. Analyses results; and
  - f. Operating conditions during time of sampling or measurement.

[Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

- 2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
  - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
  - b. To access and copy any records required by the permit:
  - Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit.
     Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
  - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.
  - e. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
- 4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
- 5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING

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### **REQUIREMENTS (CONTINUED)**

the previous six months because the emission unit was not in operation [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

- 6. The semi-annual reports are due by January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.
- 7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
  - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.
- 8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6 [Section 1b (V) 3, 4. of the Cabinet Provisions and Procedures for Issuing Title V Permits incorporated by reference in 401 KAR 52:020, Section 26].
- 9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
  - a. Identification of the term or condition;
  - b. Compliance status of each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent;
  - d. The method used for determining the compliance status for the source, currently and over the reporting period, and
  - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

# SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

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f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality Florence Regional Office 8020 Veterans Memorial drive Suite 110, Florence, KY 41042 U.S. EPA Region 4 Air Enforcement Branch Atlanta Federal Center 61 Forsyth St. Atlanta, GA 30303-8960

Division for Air Quality Central Files 803 Schenkel Lane Frankfort, KY 40601

- 10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.
- 11. Pursuant to Section VII (3) of the policy manual of the Division for Air Quality as referenced in 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days after the completion of the fieldwork.

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#### **SECTION G - GENERAL PROVISIONS**

(a) <u>General Compliance Requirements</u>

- 1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].
- 2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
  - a. If additional requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12:
  - b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
  - c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
  - d. If any additional applicable requirements of the Acid Rain Program become applicable to the source.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

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5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

- 6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].
- 11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- 12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.
- 13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].
- 14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].

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#### **SECTION G - GENERAL PROVISIONS (CONTINUED)**

15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

- 16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
  - (a) Applicable requirements that are included and specifically identified in the permit and
  - (b) Non-applicable requirements expressly identified in this permit.

#### (b) <u>Permit Expiration and Reapplication Requirements</u>

- 1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
- 2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:02+0 Section 8(2)].

#### (c) Permit Revisions

- 1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
- 2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

#### (d) <u>Construction, Start-Up, and Initial Compliance Demonstration Requirements</u>

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, emission points 25-30 in accordance with the terms and conditions of this permit.

### **SECTION G - GENERAL PROVISIONS (CONTINUED)**

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- (d) <u>Construction, Start-Up, and Initial Compliance Demonstration Requirements (continued)</u>
- 1. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.
- 2. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
  - a. The date when construction commenced.
  - b. The date of start-up of the affected facilities listed in this permit.
  - c. The date when the maximum production rate specified in the permit application was achieved.
- 3. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.
- 4. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or order of the Cabinet.
- 5. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration (*test*) on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. These performance tests must also be conducted in accordance with General Provisions G(d)7 of this permit and the permittee must furnish to the Division for Air Quality's Frankfort Central Office a written report of the results of such performance test
- 6. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

#### **SECTION G - GENERAL PROVISIONS (CONTINUED)**

(d) Construction, Start-Up, and Initial Compliance Demonstration Requirements (continued)

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7. Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), at least one month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.

8. Pursuant to Section VII 1.(2 and 3) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), if a demonstration of compliance, through performance testing was made at a production rate less than the maximum specified in the application form, then the permittee is only authorized to operate at a rate that is not greater than 110% of the rate demonstrated during performance testing. If and when the facility is capable of operation at the rate specified in the application, compliance must be demonstrated at the new production rate if required by the Division.

### (e) <u>Acid Rain Program Requirements</u>

- 1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.
- 2. The source shall comply with all requirements and conditions of the Title IV, Acid Rain Permit contained in Section J of this document and the Phase II permit application (including the Phase II NO<sub>x</sub> compliance plan, if applicable) issued for this source. The source shall also comply with all requirements of any revised or future acid rain permit(s) issued to this source.

#### (f) Emergency Provisions

- 1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - a. An emergency occurred and the permittee can identify the cause of the emergency;
  - b. The permitted facility was at the time being properly operated;
  - During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit;
     and

#### **SECTION G - GENERAL PROVISIONS (CONTINUED)**

#### (f) Emergency Provisions continued

d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the

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emergency to the Division when emission limitations are exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.

- e. This requirement does not relieve the source from other local, state or federal notification requirements.
- 2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
- 3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

#### (g) <u>Risk Management Provisions</u>

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center P.O. Box 3346 Merrifield, VA, 22116-3346

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

#### (h) Ozone depleting substances

- 1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166

### **SECTION G - GENERAL PROVISIONS (CONTINUED)**

#### (h) Ozone depleting substances continued

- e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant

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shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

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## **SECTION H - ALTERNATE OPERATING SCENARIOS**

None

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## **SECTION I - COMPLIANCE SCHEDULE**

None

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#### SECTION J – ACID RAIN

#### TITLE IV PHASE II ACID RAIN

#### **ACID RAIN PERMIT CONTENTS**

- 1) Statement of Basis
- 2) SO<sub>2</sub> allowances allocated under this permit and NOx requirements for each affected unit.
- 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
- 4) The permit application submitted for this source. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the Phase II Application and the Phase II NOx Compliance Plan.
- 5) Summary of Actions

#### • Statement of Basis:

**Statutory and Regulatory Authorities:** In accordance with KRS 224.10-100 and Titles IV and V of the Clean Air Act, the Kentucky Natural Resources and Environmental Protection Cabinet, Division for Air Quality issues this permit pursuant to Regulations 401 KAR 52:020, Permits, 401 KAR 52:060, Acid Rain Permit, and Federal Regulation 40 CFR Part 76.

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#### SECTION J – ACID RAIN (CONTINUED)

#### **PERMIT (Conditions)**

Plant Name: Louisville Gas & Electric Company

**Affected Units:** 1

#### 1. SO<sub>2</sub> Allowance Allocations and NO<sub>x</sub> Requirements for the affected unit:

SO <sub>2</sub> Allowances	Year				
	2003	2004	2005	2006	2007
Tables 2, 3 or 4 of 40 CFR Part 73	9,634*	9,634*	9,634*	9,634*	9,634*

#### NO<sub>x</sub> Requirements

#### NO<sub>x</sub> Limits

Pursuant to 40 CFR Part 76, the Kentucky Division for Air Quality approves the NOx emissions averaging plan for this unit. This plan is effective for calendar year 2003 through 2008. Under this NOx compliance plan, this unit's annual average NOx emission rate for each year, determined in accordance with 40 CFR 75, shall not shall not exceed the applicable emission limitation, under 40 CFR 76.5, of 0.45 lb/mmBTU for tangentially fired boiler. If the unit is in compliance with its applicable emission limitation for each year of the plan, then the unit is not subject to the applicable limitation, under 40 CFR 76.7 (a)(1), of 0.40 lb/mmBTU until calendar year 2008.

In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions.

In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when all affected organizations have also approved this averaging plan.

<sup>\*</sup> The number of allowances allocated to Phase II affected units by U. S. EPA may change under 40 CFR 73. In addition, the number of allowances actually held by an affected source in a unit may differ from the number allocated by U.S.EPA. Neither of the aforementioned condition does not necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit (See 40 CFR 72.84).

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### **SECTION J – ACID RAIN (CONTINUED)**

### **PERMIT (Conditions)**

Plant Name: Louisville Gas and Electric Company

**Affected Units:** 25- 30 (TC5-TC10)

### • SO<sub>2</sub> Allowance Allocations and NO<sub>x</sub> Requirements for the affected unit:

SO <sub>2</sub> Allowances	Year				
	2003	2004	2005	2006	2007
Tables 2, 3 or 4 of 40 CFR Part 73	0*	0*	0*	0*	0*

NO <sub>x</sub> Requirements	
NO <sub>x</sub> Limits	N/A**

<sup>\*</sup> For newly constructed units, there are no SO2 allowances per USEPA Acid Rain Program

<sup>\*\*</sup> These units currently does not have applicable NO<sub>x</sub> limits set by 40 CFR, part 76.

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#### SECTION J – ACID RAIN (CONTINUED)

#### 2. Comments, Notes, and Justifications:

- 1. Affected units are one (1) tangentially fired boiler and six combustion turbines.
- 2. A revised Phase II NOx Permit Application was received on June 12, 2001, including the existing unit.
- 3. All previously issued Acid Rain permits are hereby null and void
- 4. Nitrogen Oxide Compliance Plan for the facility remains unchanged since September 19, 1996.
- 5. Initial SO Compliance Plan was submitted with AR-96-007 application.

#### **3. Permit Application:** Attached

The Phase II Permit Application the Phase II NOx Compliance Plan, and the Phase II NOx Averaging Plans are part of this permit and the source must comply with the standard requirements and special provisions set forth in the Phase II Application, the revised Phase II NOx Compliance Plan, and the revise Phase II NOx Averaging Plan.

#### 4. Summary of Actions:

#### **Previous Actions:**

- 1. Draft Phase II Permit (# AR-96-007) including SO<sub>2</sub> compliance was issued for public comments on September 19, 1996.
- 2. Final Phase II Permit (# AR-96-007) including SO<sub>2</sub> compliance plan was issued on December 19, 1996.
- 3. Draft Phase II Permit (# A-98-011) was advertised in the 1998 revised SO<sub>2</sub> allowance allocations and NOx emissions standard for public comment on December 8, 1998.
- 4. Final Phase II Permit (# A-98-011) was issued with the 1998 revised SO<sub>2</sub> allowance allocations and NOx emissions standards.
- 5. Draft Phase II Permit (# V-02-043) has been issued with the revised SO<sub>2</sub> allowance allocations and NO<sub>x</sub> emissions averaging plan. Draft permit relates to the Combustion turbines permitted in June 22, 2001.

#### **Present Action:**

Final Permit revised with the revised SO<sub>2</sub> allowance allocation and NO<sub>x</sub> emission-averaging plan.